

> Denotes revised material in this JPM

### JOB PERFORMANCE MEASURE

**TASK CODE:** CFO-110

**TASK:** Operate a Portable Beta Contamination Detection Instrument

**NAME:** \_\_\_\_\_ **>BADGE:** \_\_\_\_\_

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**> REFERENCES:** Only references for knowledge items are listed here. The trainee is expected to identify the correct references for Practical items

- >1. WP 12-HP1300, Radiological Monitoring Equipment
2. Eberline ASP-1 Technical Manual
3. WP 12-HP1100, Radiological Surveys

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**TERMINAL OBJECTIVE:**

>Given that beta activity needs to be determined, perform the pre-operational checks and operate the portable beta instrument per WP 12-HP1100 and WP 12-HP1300.

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**CONSEQUENCES OF INADEQUATE PERFORMANCE:**

Improper survey results

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**HAZARDS (PERSONNEL/EQUIPMENT STATUS):**

- >Personnel Contamination
- >Contamination spread

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**PRE-REQUISITE TRAINING/ TASK COMPLETION:**

1. CL 1.00 Series
- >2. CL 2.17, Contamination Monitoring Instrumentation and Techniques
3. CFO-156, Control Radioactive Sources

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**TOOLS/EQUIPMENT (MATERIALS REQUIRED):**

- |                            |   |
|----------------------------|---|
| 1. ASP-1 w/HP210/260 probe | 3. Portable instrument operability check form |
| 2. Tc99 check source       |   |

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**Instructions to Trainee:** You shall acquire the necessary references and equipment, and complete all required

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documentation. Knowledge requirements shall be completed with 80% or greater accuracy. Critical step performance shall be completed with 100% accuracy.

**Instructions to JPM Evaluator:** The trainee is to perform the terminal objective, without assistance, on the job site. Provide clarification of requirements if requested by the trainee. You are encouraged to ask relevant questions to verify trainee understanding. If the trainee fails this JPM, clearly document the reason for failure and forward to the trainee's manager. Successful completion of this JPM shall be recorded on the trainee's qualification card.

**>On performance items, if there is more than one means available to accomplish the step, circle the method used. Refer to the RCT-01 Qualification Standard for preference of use.**

**KNOWLEDGE REQUIREMENTS:**

Reference	Knowledge Requirement	Pass/Fail
2	State the various scales of the ASP-1	
>2	Describe how the ASP-1 with a G-M (HP-260) probe operates	
1	State your actions if any of the operational checks are unsatisfactory	
3	Discuss how beta contamination results are determined from counts	
>3	State when a direct contamination survey is not required.	

**PERFORMANCE REQUIREMENTS:**

>Method	Performance Requirement	Pass/Fail
P	Verify the instrument is in calibration. #	
P	Perform a physical inspection of the instrument. #	
P	Perform a battery check. #	
P	Perform a source check of the instrument. #	
P, S	Complete and submit the portable instrument performance check sheet for review. #	
P	Determine the gross beta contamination levels of a smear. #	
P	Determine the gross beta contamination levels of a massilinn. #	
>P	Demonstrate the method used to determine total beta contamination. #	
P, S	Document the beta contamination survey results. #	

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# indicates a critical step

**FINAL EVALUATION:**

PASS

FAIL

**COMMENTS:**

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**EVALUATOR SIGNATURE:**

\_\_\_\_\_ **DATE:** \_\_\_\_\_

**TRAINEE SIGNATURE:**

\_\_\_\_\_ **DATE:** \_\_\_\_\_

**MANAGER SIGNATURE:**

\_\_\_\_\_ **DATE:** \_\_\_\_\_